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of the rural population, 28.3 per cent., while the percentages 45 years and over are 18.3 and 28.7, respectively. The large number of children in families of foreign origin may account for the fact that the proportion of children under 5 is greater in the urban population than in the rural.

The Census Bureau classifies as illiterate any person 10 years of age or over who is unable to write, regardless of ability to read. There are 406,020 illiterates in the state, representing 5.5 per cent. of the total population 10 years of age and over, the percentage being the same as in 1900. The percentage of illiteracy is 13.7 among foreign-born whites, 5 among negroes, and 0.8 among native whites. For all classes combined, the percentage of illiterates is 5.9 in urban communities and 3.9 in rural, but for each class separately the rural percentage exceeds the urban. For persons from 10 to 20 years of age, inclusive, whose literacy depends largely upon present school facilities and school attendance, the percentage of illiteracy is 2.1.

In the population 15 years of age and over 39.8 per cent. of the males are single and 33.7 per cent. of the females. The percentage married is 55.2 for males and 54.5 for females, and the percentage widowed is 4.4 and 11.3 respectively.

SCIENTIFIC NOTES AND NEWS

THE council of the British Association for the Advancement of Science has nominated Sir Oliver Lodge to be president for the Birmingham meeting in place of the late Sir William White.

A PORTRAIT of Sir William Turner, K.C.B., principal and vice-chancellor of Edinburgh University and professor of anatomy from 1867 to 1903, has been presented to the university. The portrait is the work of Sir James Guthrie. The ceremony took place in the library of the old university, Mr. Balfour, chancellor of the university, presiding. Sir Robert Finlay, K.C., M.P., made the presentation and Mr. Balfour accepted the portrait on behalf of the university.

DR. E. W. HILGARD, emeritus professor of agriculture at the University of California, is recovering from severe injuries received a few weeks ago, when a flight of steps which he was ascending gave way, throwing him to the floor. The broken bones are uniting and it is hoped that he will soon be able to resume his writing, which was interrupted by the accident.

AT the ceremonies connected with the opening of the Phipps Psychiatric Clinic of the Johns Hopkins University Hospital, beginning on April 16, addresses will be given by Sir William Osler and Professor William McDougall, of Oxford; Frederick W. Mott, F.R.S., of London; Professor Heilbronner, of Utrecht; Professor Bleuler, of Zurich, and Professor Orovino Rossi, of Italy.

ON the nomination of the council of the University of Paris, M. Jean Perrin, professor of physical chemistry in the University of Paris, has been appointed visiting French professor at Columbia University for 1913-14.

SIR CECIL H. SMITH, director of the Victoria and Albert Museum, and Dr. E. H. Starling, F.R.S., professor of physiology in the University of London, have been elected members of the Athenæum Club, London, under the rule which empowers the annual election of three persons "of distinguished eminence in science, literature, the arts, or for public service."

AT the dinner of the Chicago Medical Society on February 26 Dr. Abraham Jacobi, New York City, and Dr. Edward Martin, Philadelphia, were the guests of honor.

A RECEPTION was given by the Manhattan Medical Society on February 28 to Dr. Jacques Loeb, of the Rockefeller Institute, at which he spoke on "Some Recent Experiments in Artificial Parthenogenesis."

MR. JOHN J. SCHOONHOVEN, president of the department of zoology of the Brooklyn Institute, has been made a fellow of the institute.

THE Rev. A. H. Cooke, known for his work on molluscs, has succeeded Mr. R. Bullen Newton as president of the Malacological Society of London.

MR. FRANK ARMITAGE POTTS, M.A., fellow of Trinity Hall, Cambridge, has been elected to the Balfour studentship.

MR. T. LL. HUMBERSTONE, B.Sc., has been appointed to the Mitchell studentship of the University of London. The studentship, which is of the value of £100, is for the study of some definite feature of business or industrial organization at home or abroad. Mr. Humberstone proposes to investigate the scheme of industrial fellowship in the Universities of Pittsburgh and Kansas under which research work in applied science is promoted with funds provided by, and to some extent under the supervision of, industrial and commercial organizations.

PROFESSOR WILLIAM MCPHERSON, dean of the graduate school and professor of chemistry at the Ohio State University, has been granted leave of absence for the second semester of the current year. He sailed on March 1 for Germany, where he will spend the next six months in research work in chemistry.

MR. LUTHER E. WIDEN, of the University of Iowa, will accompany Mr. Villjalmar Stefansson on his expedition and will make psychological measurements on the Esquimaux.

PREPARATIONS are being made for the despatch of an official French expedition to Franz Josef Land under M. Jules de Payer, son of the Austrian Captain de Payer, who commanded the Austrian expedition that discovered Franz Josef Land in 1873.

MR. ANDERS K. ANGSTRÖM, son of the distinguished Swedish physicist, and now a student at Cornell University, will have charge of a scientific expedition to Mt. Whitney to continue work on the radiation of the sun under the Smithsonian Institution. Mr. Angström was assistant to Dr. C. G. Abbot, director of the Smithsonian Astrophysical Observatory, in his work in Algeria last summer.

PROFESSOR FRANK SMITH, of the zoological department of the University of Illinois, has been requested by the authorities of the United States National Museum at Washington to take charge of its collection of annelid worms belonging to the group of *Oligochæta*.

Professor Smith and his assistants are now at work on the anatomical study and classification of the first installment of material, which includes not only North American forms, but also part of the collection made a few years ago by the Roosevelt expedition to East Africa. The remainder of the material in the possession of the national museum will be sent to Urbana as it is needed.

DR. FELIX KRUEGER, professor of philosophy at the University of Halle and Kaiser Wilhelm professor at Columbia University, lectured on psychological subjects last week at the University of Wisconsin and the University of Illinois.

PROFESSOR W. M. DAVIS, during his recent trip to the middle west, lectured at Oberlin College and the University of Chicago on "Dana's Confirmation of Darwin's Theory of Coral Reefs," and before the Sigma Xi Society of Northwestern University on "Human Response to Geographical Environment"; he also spoke at the Francis W. Parker School, Chicago, on "The Highlands of the Rocky Mountains in Colorado."

THE winter course in highway engineering (February 24 to March 8), given this year for the first time at the Ohio State University, has proved to be popular with the engineers of Ohio who are engaged in highway construction. Contractors, inspectors and county commissioners to the number of sixty enrolled for the course. The Ohio Good Roads Federation cooperated with the university in meeting the expense. The lectures covered many phases of highway construction, maintenance and materials. Among the special lectures were Professor A. H. Blanchard, of Columbia University; A. N. Johnson, state highway engineer of Illinois, and J. J. Voshell, U. S. highway engineer, Washington, D. C.

THE fifth annual meeting of the Illinois Water Supply Association was held at the University of Illinois on March 11 and 12. Members of the association are interested in obtaining and conserving an abundant supply of pure water in the state of Illinois. Special

exhibits are to be placed in the hydraulic and the state water survey laboratories. Among the speakers announced were: Dr. E. O. Jordan, professor of bacteriology, University of Chicago; Dr. W. L. Lewis, professor of chemistry, Northwestern University; Dr. S. A. Forbes, professor of entomology, University of Illinois, and others from these universities, and water supply experts from Chicago, London, England, Charleston, S. C., Cincinnati, Ohio, Washington, D. C., and many other large cities.

DR. E. C. JEFFREY, professor of plant morphology at Harvard University, lectured at the University of Illinois last week on the formation of coal.

DR. ALBERT ERNEST JENKS, professor of anthropology, University of Minnesota, delivered five illustrated lectures on the "Philippine Peoples," in New York City, for the Board of Education during the recent intersemester recess.

ON the evening of March 6, Professor A. W. Goodspeed, of the University of Pennsylvania, lectured before the Franklin Institute on "The Relation of Electricity to Matter."

PROFESSOR GEORGE GRANT MACCURDY, of Yale University, lectured before the Science Club of Amherst and the Massachusetts Agricultural College on the evening of March 3, the lecture being based on his past summer's work in the European prehistoric field.

ON February 28, Dr. L. R. Ingersoll, of the physics department of the University of Wisconsin, gave an address on the "Kerr Effect" before the physics colloquium at the University of Illinois.

DR. JOHN SHAW BILLINGS, director of the New York Public Library since 1896, previously professor of hygiene at the University of Pennsylvania, surgeon and lieutenant colonel in the army, died on March 10, aged seventy-three years.

OSCAR DANA ALLEN, professor of metallurgy and analytical chemistry at Yale University from 1871 to 1887, died on March 5 at his home at Ashford, Wash. He had written on the flora of Mount Tacoma.

PROFESSOR OSCAR OLDBERG, dean emeritus of the Northwestern University School of Pharmacy, for thirty years a member of the committee of revision of the United States Pharmacopœia, died in Pasadena, Cal., on February 27.

DR. ARNOLD HELLER, professor of pathological anatomy at Kiel, has died at the age of seventy-three years.

THE Pagel collection of books on the history of medicine, being the library of the late Professor Julius Pagel, has been given to the medical department of Washington University through the generosity of a friend of the institution. The library contains about 2,500 titles.

A MEETING of the committee appointed to make arrangements for the meeting of the British Association in Birmingham in September was held on March 10, Alderman W. H. Bowater presiding. The Finance Subcommittee reported that promises amounting to £5,493 by 642 local people had been received in answer to the circular sent out to 3,000 persons in January. Sir Oliver Lodge mentioned that the local fund would pay the greater part of the expenses of the meeting, and that the membership subscriptions and general receipts for admission would go into the general funds of the British Association for the assistance of scientific research. Professor Gamble, on behalf of the Halls Committee, said it had been arranged to have the president's address and the evening meeting at Central Hall, while the offices, reception rooms and refreshment rooms would be at the Town Hall and Mason College.

ON the occasion of the seventeenth International Congress at London next August, three prizes will be awarded: The Prize of Moscow, commemorating the twelfth congress, of the value of 5,000 francs, will be awarded for work in medicine and hygiene or for eminent services rendered to suffering humanity; the Prize of the thirteenth Congress of Paris, having a value of 4,000 francs, will be bestowed for original work during the past ten years bearing upon medicine, surgery, obstetrics or the biological sciences in their

application to medical science; and the Prize of Hungary, instituted to commemorate the sixteenth Congress of 3,000 crowns, will be given for a notable piece of work in medical science which has appeared in the interval since the last congress. Nominations of candidates for these prizes are invited before June 1, 1913, and should be sent, together with examples of the work on which the candidacy is based, to the Bureau de la Commission permanente des Congres internationaux de medicine, Hugo de Grootstraat 10, The Hague.

THE Southern Society for Philosophy and Psychology will hold its eighth annual meeting at the Johns Hopkins University, Baltimore, on April 8 and 9.

THE annual meeting of the American Breeders' Association was held at Columbia, South Carolina, in affiliation with the National Corn Exposition, January 24-27, 1913. As usual in recent meetings of this association, the work of the eugenics section was especially prominent. Dr. Charles B. Davenport's evening lecture to the citizens of Columbia on eugenics and the colored race was received with interest. He gave a general view of the difficulties brought about by the blending of the unit characters of two races so radically different. A feature of the work of the plant section was a visit to the state experiment station booths at the National Corn Exposition, which is really a national farm crops exposition. A plant-breeding expert in each of nearly a dozen states received the association at his booth and with samples at hand told of one or more varieties of corn, wheat, sugar cane, or other crop which had been materially improved by the state experiment station and had come into wide commercial use in the state. In each case the method of breeding used in producing the new variety, the percentage of increase it produced over the varieties it is displacing and the acreage covered throughout the state were given. For example, a variety of sugar cane in Louisiana was said to now occupy half the sugar cane area of that state with a yield of canes ten per cent. above the yields of varieties it displaced and with a percentage

of sugar in these canes ten per cent. above the old averages. Nearly similar increases were shown in varieties of wheat in Minnesota and Washington, varieties of corn in Indiana, Illinois and other states and varieties of cotton in South Carolina and other southern states.

UNIVERSITY AND EDUCATIONAL NEWS

By the death in Wallingford, Conn., of Joseph Lyman, Yale University will receive \$650,000. He held the life use of that sum which was willed to the college by his brother, Samuel Lyman, who died in 1910.

BOTH houses of the legislature of the state of Washington recently adopted the biennial budget submitted by the joint appropriations committees. The University of Washington will receive \$1,004,701. The matter of the replacement of the temporary university buildings by adequate modern structures has been submitted to the legislature separately.

THE recently adjourned legislature of West Virginia gave larger appropriations to the state university than in any previous year. Among others was a special appropriation for the medical work to make it possible to follow out the plans outlined by the committee from the Association of American Medical Colleges.

THE Indiana legislature has made an appropriation of \$65,000 for the medical school and hospital of the Indiana University School of Medicine for the first year, and an annual appropriation of \$75,000 thereafter.

FUNDS have been provided at Columbia University to build a laboratory for the study of cancer under the George Crocker research fund. This fund amounts to over one and one half million dollars, and it was provided that the income should be used solely for research work. The laboratory, which will be 100 by 40 feet and three stories high, will be on the block east of Amsterdam Avenue on 116th St.

THE clinical and laboratory building of the Stanford University Medical Department in San Francisco has recently been remodeled at an expense of about \$40,000. This large building was formerly used by Cooper Medical Col-